	and the second	Section A	Marks 50
Q.1	Mul	tiple choice questions.	[/10]
i.	5%	increase in the \$100 means	
	A.	\$5	
	В.	\$95	
	C.	\$100	
	D.	\$105	
ii.	209	% of 2000 is	
	A.	100	
	B.	400	
	C.	2400	
	D.	1600	
III.	4 H	nours : 100 minutes expressed in th	ne simplest form is
		5:12	
	В.	2:50	
	C.	12 : 5	
	D.	4:100	
iv.	In	inverse proportion, when one qua	ntity increases the other quantity
	A.	Increases	
	8.	Decreases	
	C.	Remains same	
	D	. None of the above	
V.	. 2	D litres decreased by 45% is	
	A	. 11 litres	

9 litres

C. 14 litres

D. 29 litres

23 12 converted to 12-hour clock notation is
A. 23: 12 pm
B. 11:12 am
C. 11:23 am
D. 11: 12 pm
The sum of two supplementary angles is
A. 180°
B. 270°
C. 90°
D. 360°
The gradient of the line $y = 5x + 4 is$
A. 5x
B. 5
C. 4y
D. 4
The sum of exterior angle of an n sided polygon is equal to
A. 180°
B. 270°
C. 300°
D. 360°
Rectangle has lines of symmetry
A. 0
B. 1
C. 2
D. 4

1.2			[10
a.	Fill in	n the blanks.	<u>_</u> /s
	i.	The most frequent number of a set of data is called its	
	II.	If the base angles of an isosceles triangle are 25° then the third angle_	
	III.	Vertically opposite angles are always	
	iv.	The sum of interior angles of a pentagon is	
	v.	5430 Litres equal to cm ³ .	
b	. Tru	e or False	[_/5]
	i.	Each angle of an equilateral triangle is equal to 45°.	CONTROL OF
	ii.	The gradient of a straight line measures the ratio of vertical change to the	he horizontal
		change.	1996 Series St. San Changaire and colony of America
	iii.	Parallel lines are formed when two straight lines intersect each other.	
	iv.	Midnight converted to 24 hour notation is 12 00.	
	v.	Angle bisector means dividing the angle into three equal parts.	
q	.3		[10]
	a. Th	nere are 28 bed sheets and 24 pillow covers in the cupboard. Find	
	i.	the ratio of bed sheets to pillow covers in the simplest form.	[_/1]

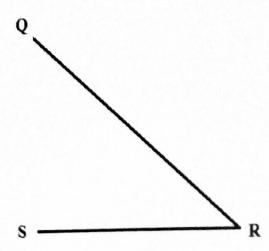
the ratio of pillow covers to the total items in the cupboard.

[_/2]

b.	If 5 workers can paint a building in 20 days.		
	How many days will 4 workers take to paint the same building?	[/2]	
c.	Find the cost of 8 books when 6 books cost \$48.	[_/2]	
d.	My car travels 128 km on 12 litres of petrol.		
	How far do I expect to travel on a full tank of 30 litres?	[_/3]	

- a. Construct:
 - i. Angle bisector of $Q\hat{R}S$

[_/3]

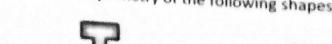


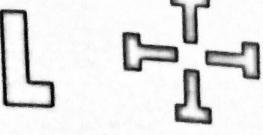
ii. Perpendicular bisector of the line LM measuring 7 cm.

[_/3]

[14]

b. State the order of rotational symmetry of the following shapes.







Q.5

[10]

a. Write an expression to represent

"five less than the product of eight and a number"?

[_/2]

b. Given that the value of p=-4, q=3 Find the value of 'S' in the equation S=-4p+2q

[_/2]

c. When a number is doubled and 5 is subtracted from the result, the answer is 37.
Find the number.

d. The sum of three consecutive numbers is 156. Find the three numbers.

_/3]

Maria Internation	Section B	Marks: 50	
Q.6. a.i	A lorry arrived in town B at 17 45 after t	ravelling for 8 hours and 50 minutes.	[10]
	Find the time the lorry started the journ	ey.	<u>[</u> /2]
II.	If the lorry reached 35 minutes early, at v	what time was it scheduled to arrive?	[_/2]
	The weight of a baby was 14kgs. After some time the weight of the baby w Find the new weight.	vas increased by 30%.	[_/3]
€.	After 6% deduction in bill, \$282 still remai Find the original bill.	ns to be paid.	L/31

The goals of Team A during a football tournament are given below.

6, 3, 4, 4, 5, 2, 1, 0, 6, 8, 4, 5

Calculate

i. The mean number of goals

[_/2]

ii. The median of the goals

iii. The mode of the goals

[/1]

b. Some children were asked to name their favourite flavour of ice cream.

The pie chart shows some information about their answers.

15 students chose mint to be their favourite flavour.

Calculate

The angle of sector representing strawberry.

[_/2]



The total number of students who participated in the survey.

[/2]

iii. What percentage of students selected Chocolate?

1/2]

a. Calculate the exterior angle of a hexagon.

b. In the diagram AB is parallel to CD.

[__[4]

i. Calculate the size of the angle marked x.

Diagram not drawn accurately

Give a reason for your answer

ii. Write down the value of y.

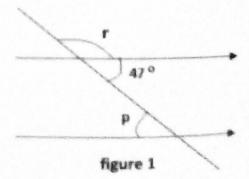
Give a reason for your answer:

c. Find the value of the unknown variables in figure 1. Also give a reason for your answer.

[[4]

i. p?

Reason:



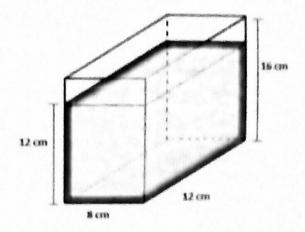
H. 17

Reacon

a. An open rectangular tank of length 12 cm, width 8 cm and height 16 cm contains water up to a height of 12 cm. Calculate:

The volume of water in litres;





- b. Given that the surface area of a cube is 96 cm2. Find
 - i. The length of each side of the cube



[/3]

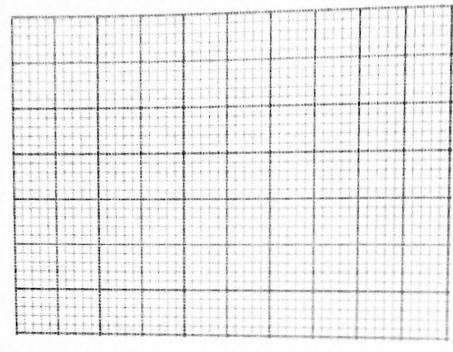


ii. If the length of the side of a similar cube is 10 cm, calculate its volume.

a. Draw the graph of the following linear function

$$y = -2x + 6$$

[_/5]



x y = -2x + 6

b. Find the value of x and y in the given isosceles triangle.



[_/2]

Calculate the sum of interior angles of a 7 sided polygon.

[/2]